Monsanto

FROM (NAME & LOCATION) D. G. Glasgow-EASC-Dayton-1250

DATE : September 5, 1979

cc: D. J. Dahm/File
F. N. Hodgson
D. Q. Douglas

SUBJECT : PCB CONTENT OF OIL SAMPLES

REFERENCE : MRC JOB NO. 409.3380

TO : James Finch
Akron - 1010

The samples of oil which you submitted recently for determination of PCB content was analyzed under the conditions given below. The following PCB concentrations were found (reported as Aroclor 1254).

Sample Designation	PCB Level, ppm
Therminol 55 No. 1	21,100
Therminol 55 No. 2	19,500
Therminol 55 No. 3	20,000
Therminol 55 No. 4	20,500
Therminol 55 No. 5	20,500
Therminol 55 No. 6	19,000

The oils were diluted with hexane and analyzed by electron capture gas chromatograph under the following conditions:

GC Model:	Varian 3700, Model 8000
Column:	10' x 2mm glass packed with 3% OV101 on Supelcoport
Column Temperature:	210°C
Injection Port Temp:	250°C
Detector Temperature:	350°C
Carrier Gas:	CH_4/Ar (10/90) at 60 psig on column
PCB Screened for:	Aroclor 1242, 1254, and 1260

The PCB present was identified by comparing the sample chromatogram to those of Aroclor 1242, 1254, and 1260 to establish which of these three was the most likely PCB present. The PCB level was then calculated using the corresponding calibration curve.

Also included is a copy of our report on the accuracy and precision of PCB analyses in oil matrices.

Please contact me at ext. 328 if you have any questions.

D. Gerald Glasgow

D. Gerald Glasgow
EASC Project Manager

DGG/bap
Enclosure

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